Special Issue

Energy Harvesting in Environmental Wireless Sensor Networks

Message from the Guest Editors

The emergence of new sensors and monitoring devices brings new possibilities for research and operations in environmental monitoring. A number of environments not only require specific types of measurements, but also have extensive requirements regarding the performance of environmental wireless sensor networks (EWSNs). Additionally, wireless environmental sensor networks are commonly installed in remote or inaccessible locations. This creates even more stringent requirements of higher reliability and energy independence in terms of energy harvesting options. The aim of this Special Issue is to gather the latest original research and review articles on energy harvesting in EWSNs. The topics of this Special Issue will include, but are not limited to:

- Adaptive operation and sensing;
- Data collection and cloud computing;
- Edge computing and data compression methods;
- Energy harvesting technologies;
- Energy-efficient algorithms;
- Energy storages and supercapacitors;
- Fault and maintenance prediction;
- Machine learning approaches;
- Operation reliability analysis;
- Optimal hardware and software designs;
- Prediction of harvested energy;
- Signal processing methods.

Guest Editors

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Prof. Dr. Darius Andriukaitis

Deadline for manuscript submissions

closed (25 November 2024)

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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